No. 7200143

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Delta and Pine Land Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Deltapine 826'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington *this* 20th *day of* November *in the year of our Lord one thousand nine hundred and* seventy-four

Attest:

L. E. Rollins

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Earl L. Butz

Secretary of Agriculture

FORM GR-470
(2-12-71)

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSUMER AND MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

FORM APPROVED
OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1. VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME	FOR OFFICIAL USE ONLY
DELTAPINE 826	COTTON	PVPO NUMBER 72143
3. GENUS AND SPECIES NAME	4. FAMILY NAME *(Botanical)*	FILING DATE 6/12/72 — TIME 1:30 A.M. P.M.
GOSSYPIUM HIRSUTUM	MALVACEAE	
	5. DATE OF DETERMINATION	FEE RECEIVED — CHARGES
	OCTOBER 1962	$ 750

6. NAME OF APPLICANT(S)	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*	8. TELEPHONE AREA CODE AND NUMBER
DELTA & PINE LAND CO.	SCOTT, MISSISSIPPI 38772	601-742-3351

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*	10. STATE OF INCORPORATION	11. DATE OF INCORPORATION
CORPORATION	MISSISSIPPI	APRIL 29, 188

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

RESEARCH DEPARTMENT
DELTA & PINE LAND COMPANY
SCOTT, MISSISSIPPI 38772

13. **CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:**

- [X] 12A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52, P.L. 91-577)*
- [X] 12B. Exhibit B, Botanical Description of the Variety
- [✓] 12C. Exhibit C, Objective Description of the Variety
- [X] 12D. Exhibit D, Data Indicative of Novelty
- [X] 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. *(See Section 52, P.L. 91-577).*

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? *(See Section 83(a), P.L. 91-577) (If "Yes," answer 14B and 14C below.)* [ ] YES [X] NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations?	14C. If "Yes," to 14B, how many generations of production beyond breeder seed?
[X] YES [ ] NO	THREE

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act (P.L. 91-577).

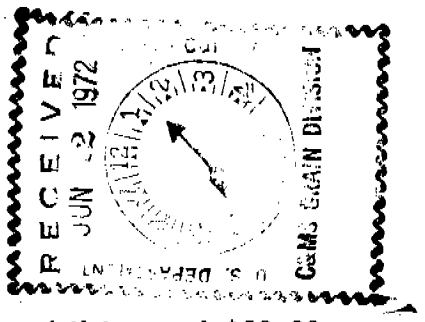
May 16 1972
(DATE)

Early C. Ewing Jr.
(SIGNATURE OF APPLICANT)
VICE PRESIDENT, DELTA & PINE LAND CO.

May 18 1972
(DATE)

Elmer L. Gilbert
(SIGNATURE OF APPLICANT)
PLANT BREEDER

FORM GR-470 (REVERSE)



INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and $50.00 fee to U.S. Dept. of Agriculture, Consumer and Marketing Service, Grain Division, Hyattsville, Maryland 20782. Retain one copy for your files. All items on the face of the form are self-explanatory unles noted below.

ITEM

5 Insert the date the applicant determined that he had a new variety.

12a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.

12b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.

12c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.

12d Provide complete data indicative of novelty. Seed and plant specimens may be submitted and seeds submitted may be sterile. Where possible, include photographs of plant comparisons, chemical tests, etc.

12e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

EXHIBIT A OF DELTA & PINE LAND COMPANY'S APPLICATION FOR DELTAPINE 826

ORIGIN AND BREEDING HISTORY:

Deltapine 826 originated from a progeny selection program in the F2 population arising from the 1958 cross between Deltapine Experimental Strains 523M-327-43-51 and 527 M-312-46-53. Progenies were reselected in 1959, 1960, 1961, 1962. The final selection was made in October 1962. This variety hereinafter tested under the designation Deltapine 5826.

This variety has been carefully selected over a number of generations as explained in the first of this section in that the characters described in "Exhibit D" are demonstratively repeated in each generation within the variation caused by environmental differences. In order to assure this stability plants of this variety are reselected at frequent intervals, grown in progeny rows, checked in progeny tests and variety reconstituted by bulking lines which are characteristics of the variety.

EXHIBIT B OF DELTA & PINE LAND COMPANY'S APPLICATION FOR DELTAPINE 826

BOTANICAL DESCRIPTION:

This is a variety of upland cotton Gossypium hirsutum. It has an erect, many branched stem, a vigorous root system, medium to tall in size, medium to light green in color, moderately hirsute leaves, corrollas are cream colored and anthers are 75% cream color, 25% golden color, bolls obovate and opening fuller, lintens are gray and seed are dark brown.

Doug 2/21/74
DPL
Ewing letter 2/14/74

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-8
(10-2-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C
(Cotton)

OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: *See Reverse.*

COTTON *(GOSSYPIUM SPP.)*

NAME OF APPLICANT(S)

DELTA & PINE LAND COMPANY

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*

SCOTT, MISSISSIPPI 38772

FOR OFFICIAL USE ONLY

PVPO NUMBER

72143

VARIETY NAME OR TEMPORARY DESIGNATION

Deltapine 826

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

5826

1. SPECIES:

[1] 1 = GOSSYPIUM-HIRSUTUM 2 = GOSSYPIUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):

[1] EASTERN [1] DELTA [1] CENTRAL [0] HIGH PLAINS [0] EL PASO AREA

[2] WESTERN LOW HOT VALLEYS [2] SAN JOAQUIN [ ] OTHER *(Specify)* _____

3. MATURITY (50% Open Boll):

[ ][ ] NO. OF DAYS *EARLIER* THAN . . . . . [ ]

[1][2] NO. OF DAYS *LATER* THAN . . . . . [2]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER *(Specify)* _____

4. PLANT HABIT:

[1] 1 = SPREADING 2 = INTERMEDIATE 3 = COMPACT

[1] 1 = FOLIAGE SPARSE 2 = DENSE
3 = OTHER *(Specify)* _____

5. PLANT HEIGHT:

[ ][ ] CM. *SHORTER* THAN . . . . . [ ]

[1][5] CM. *TALLER* THAN . . . . . [2]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER *(Specify)* _____

6. MAIN STEM:

[3] 1 = LAX 2 = ASCENDING 3 = ERECT

[5] CM. TO FIRST FRUITING BRANCH

[0][7] NO. OF NODES TO FIRST FRUITING BRANC *(from cotyledonary node)*

7. LEAF:

[1][4] CM. WIDTH OF WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENSE:

[3] 1 = GLABROUS (HAIRS AS SPARSE AS D_2 SMOOTH)
2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 3 = PUBESCENT (STONEVILLE 213)
4 = HEAVY PUBESCENCE (H_1 OR H_2) 5 = OTHER *(Specify)* _____

9. LEAF COLOR:

[2] 1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN *(Acala-442)* 4 = RED
5 = OTHER *(Specify)* _____

10. LEAF TYPE:

[1] 1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER *(Specify)* _____

11. FLOWER:

[2] 1 = NECTARILESS 2 = NECTARIED

[1] Petals: 1 = CREAM 2 = YELLOW [1] Pollen: 1 = CREAM 2 = YELLOW

12. FRUITING BRANCH TYPE:

[3] 1 = CLUSTER 2 = SHORT 3 = NORMAL [2] 1 = DETERMINATE 2 = INDETERMINATE

13. GOSSYPOL CONDITION:

[3] 1 = GLANDLESS 2 = REDUCED GLANDS 3 = NORMAL GLANDS
4 = OTHER *(Specify)* _____

[1] 1 = NORMAL BUD GOSSYPOL
2 = HIGH BUD GOSSYPOL

14. SEEDS:

[0][1][1] ± [ ][2] SEED INDEX *(Fuzzy seed basis)*

[2] Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16)
3 = HEAVY (ACALA SJ-1) 4 = OTHER *(Specify)* _____

4

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-8
(10-2-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C
(Cotton)

OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: *See Reverse.*

COTTON *(GOSSYPIUM SPP.)*

NAME OF APPLICANT(S)
DELTA & PINE LAND COMPANY

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
SCOTT, MISSISSIPPI 38772

FOR OFFICIAL USE ONLY

PVPO NUMBER
72143

VARIETY NAME OR TEMPORARY DESIGNATION
Deltapine 826

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. SPECIES:

[1] 1 = GOSSYPIUM HIRSUTUM 2 = GOSSYPIUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):

[1] EASTERN [1] DELTA [1] CENTRAL [1] HIGH PLAINS [2] EL PASO AREA

[2] WESTERN LOW HOT VALLEYS [2] SAN JOAQUIN [ ] OTHER *(Specify)* _____

3. MATURITY (50% Open Boll):

[ ][ ] NO. OF DAYS *EARLIER* THAN . . . . . [ ]

[1][2] NO. OF DAYS *LATER* THAN . . . . . [2]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER *(Specify)* _____

4. PLANT HABIT:

[1] 1 = SPREADING 2 = INTERMEDIATE 3 = COMPACT

[1] 1 = FOLIAGE SPARSE 2 = DENSE
3 = OTHER *(Specify)* _____

5. PLANT HEIGHT:

[ ][ ] CM. *SHORTER* THAN . . . . . [ ]

[1][5] CM. *TALLER* THAN . . . . . [2]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER *(Specify)* _____

6. MAIN STEM:

[3] 1 = LAX 2 = ASCENDING 3 = ERECT

[5] CM. TO FIRST FRUITING BRANCH

[0][5] NO. OF NODES TO FIRST FRUITING BRANCH *(from cotyledonary node)*

7. LEAF:

[1][4] CM. WIDTH OF WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENSE:

[3] 1 = GLABROUS (HAIRS AS SPARSE AS D_2 SMOOTH)
2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 3 = PUBESCENT (STONEVILLE 213)
4 = HEAVY PUBESCENCE (H_1 OR H_2) 5 = OTHER *(Specify)* _____

9. LEAF COLOR:

[2] 1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN *(Acala-442)* 4 = RED
5 = OTHER *(Specify)* _____

10. LEAF TYPE:

[1] 1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER *(Specify)* _____

11. FLOWER:

[2] 1 = NECTARILESS 2 = NECTARIED

[1] Petals: 1 = CREAM 2 = YELLOW [1] Pollen: 1 = CREAM 2 = YELLOW

12. FRUITING BRANCH TYPE:

[3] 1 = CLUSTER 2 = SHORT 3 = NORMAL [2] 1 = DETERMINATE 2 = INDETERMINATE

13. GOSSYPOL CONDITION:

[3] 1 = GLANDLESS 2 = REDUCED GLANDS 3 = NORMAL GLANDS
4 = OTHER *(Specify)* _____

[1] 1 = NORMAL BUD GOSSYPOL
2 = HIGH BUD GOSSYPOL

14. SEEDS:

[0][1][1] ± [ ][2] SEED INDEX *(Fuzzy seed basis)*

[2] Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16)
3 = HEAVY (ACALA SJ-1) 4 = OTHER *(Specify)* _____

EXHIBIT D

Revised Statement of Delta & Pine Land Company's
Exhibit D for Deltapine 826 (72143)

DATA INDICATIVE OF NOVELTY

Deltapine 826 most closely resembles Deltapine 16 but is similar in other ways to its other parental type--Acala. It is not compared with its parental varieties since the crosses were made in 1953. Deltapine 826 was thoroughly tested in Arizona and California in 1966-1969. Original comparisons were made against Deltapine Smooth Leaf (Table 1). This variety was replaced in 1967 by Deltapine 16. Because Deltapine 16 represents the best check variety (more comparative data is available) Deltapine 16 is used as the check parent of the Deltapine type.

Table 2 compares its performance with a number of Acala types and Deltapine 16 in the San Joaquin Valley in 1968. Spinning and fiber data are the most significant features of this test.

Tables 3A and 3B are added as a part of this revision and give a more complete and thorough presentation of data covered in Table 3 of the original presentation. Table 3A gives the result of individual tests in California and Arizona in 1966, 1967, 1968 and 1969. You will note that Deltapine 826 is compared with Deltapine 16 and Imperial Acala in California and Deltapine 16 and Hopicala in Arizona. One Acala was proposed as the best for California and the other for Arizona. Both Hopicala and Deltapine 826 have a common parent AHA 6-1-4 which dates back to the late 1940's.

Arizona Test Summary

	Yield %	Lint %	Strength T_1	Elong-ation	Staple Length	Unif.*	Mike
Deltapine 826	96	-1.2	+1.2	-1.4	+.01	+2/+2	+.1
Deltapine 16	100	34.0	22.7	5.9	1.09	80/43	4.4
Hopicala	95	-0.5	+3.4	-1.5	.00	+3/+2	-.2

	Smooth-ness	Wilt %	Leafiness	Plant Height	Lodging	Strings out
Deltapine 826	4	49	2.2	3.0	0.5	3.0
Deltapine 16	7	41	2.1	2.2	1.2	2.0
Hopicala	3	42	2.5	3.9	1.2	3.0

California Test Summary

	Yield %	Lint %	T_1 Strength	Elong-ation	Staple Length	Unif.*	Mike
Deltapine 826	95	-1.5	+2.0	-1.1	+.02	0/+1	+.2
Deltapine 16	100	32.6	23.8	5.1	1.11	80/43	4.3
Imperial Acala	82	-2.3	+ 2.8	- .9	+.01	0/+1	-.1

	Second Growth	Leafiness	Plant Height	Lodging	Strings out
Deltapine 826	1.3	2.2	3.2	1.8	3.0
Deltapine 16	2.2	1.0	2.0	1.7	2.0
Imperial Acala	1.6	3.1	4.2	2.8	3.0

* Starting in 1968 a different measure of Uniformity was used.

In summary, Deltapine 826 yields slightly less than Deltapine 16 (-5%), has a lower lint percentage (-1.3) but a higher tensile strength (+1.6), a slightly longer staple (+.01), and a little higher mike (+1.5).

Agronomically it is taller, more erect, and the cotton strings out more.

Compared to the Acalas it has a better yield and better lint percent than Imperial Acala and less than Hopicala. Cotton of Deltapine 826 strings out the same but it has a significantly shorter plant than either.

One test (Table 4) conducted at Yuma, Arizona in 1969 by the Arizona Experiment Station confirms the results given in the above summary.

Spinning tests of Delta & Pine Land Company (Table 5) and of the USDA (Table 2, col. 8) show Deltapine 826 to produce stronger yarn than Deltapine 16, equal to or stronger than Imperial Acala (Imperial 962 in Table 2) and weaker than Hopicala (Table 5).

Early C Ewing, Jr (by jaf)
Early C. Ewing, Jr., Vice President

Date June 24, 1974

EXHIBIT E (Amendment)

DELTA & PINE LAND COMPANY'S APPLICATION FOR DELTAPINE 826 (72143)

Delta & Pine Land Company is the owner of plant variety protection rights to the variety Deltapine 826 (72143). The breeder is an employee of the company and has executed an assignment of Plant Variety Rights to the Company.

DATE: November 1, 1973

SIGNED: Early C. Ewing, Jr.

Early C. Ewing, Jr.
Vice President

COTT

PV No. 72-143

'Deltapine 0826'

An excess seed sample of this variety was returned to the PVP Office by the National Seed Storage Laboratory. The excess seed was destroyed by PVPO personnel on NOV 14 1994

FORM GR-470-8 (REVERSE)

15. BOLLS:

[2] Locules: 1 = 3-4, 2 = 4-5

[3 0] NO. SEEDS PER BOLL

[3 3 0] LINT PERCENT

[4 0] MM. DIAMETER

[2] Pitted: 1 = NONE, 2 = FINELY, 3 = COURSELY

[5 3 0] GRAMS SEED COTTON PER BOLL

[2] Breadth: 1 = BROADER AT BASE, 2 = BROADER AT MIDDLE

[3] Type: 1 = STORMPROOF (WESTBURN 70), 2 = STORM RESISTANT (LANKART 57), 3 = OPEN (DELTAPINE 16)

[3] Shape: 1 = LENGTH < WIDTH, 2 = LENGTH = WIDTH, 3 = LENGTH > WIDTH

16. BRACTEOLES:

[1] Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH

[2] Teeth: 1 = FINE 2 = COURSE

[2] Teeth: 1 = 3-4 2 = 5-7 3 = 8-10 4 = OTHER *(Specify)* _____

17. YIELD: Compared to–

[8 0] PERCENT *LESS* THAN .....

[ ] PERCENT *MORE* THAN .....

[2] [ ] 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1 7 = LANKART 57

18. FIBER LENGTH (Complete one or more of the following and give the means):

[ ] SPAN LENGTH 50%

[1 1 4] SPAN LENGTH 2.5%

[ ] U.H.M. LENGTH

[ ] MEAN LENGTH

[3 5] STAPLE LENGTH 32nd INCHES

[ ] UNIFORMITY RATIO (MEAN/U.H.M.)

[4 5] UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

[ ] 1,000 P.S.I.

[4 6] ELONGATION E_1

[ ] STILOMETER T_0

[4 5 0] MICRONAIRE READING

[ ] YARN STRENGTH *(Give test method)* _____

[2 4 5] STILOMETER T_1

20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[2] VERTICILLIUM WILT

[2] FUSARIUM WILT

[2] ROOT KNOT NEMATODE

[0] BACTERIAL BLIGHT *(Race 1)*

[0] BACTERIAL BLIGHT *(Race 2)*

[0] ASCOCHYTA BLIGHT

[1] PHYMATOTRICHUM ROOT ROT

[0] RHIZOCTONIA

[0] ANTHRACNOSE

[0] RUST

[ ] OTHER *(Specify)* _____

21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[1] BOLL WEEVIL

[1] APHID

[1] FLEAHOPPER

[1] LEAFWORM

[1] FALL ARMYWORM

[1] GRASSHOPPER

[1] LYGUS

[1] PINK BOLLWORM

[0] STINKBUG

[1] THRIP

[1] CUTWORM

[1] SPIDERMITE

[ ] OTHER *(Specify)* _____

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.

DELTAPINE 826

FORM GR-470-8 (REVERSE)

15. BOLLS:

[2] Locules: 1 = 3-4, 2 = 4-5

[30] NO. SEEDS PER BOLL

[33.0] LINT PERCENT

[40] MM. DIAMETER

[2] Pitted: 1 = NONE, 2 = FINELY, 3 = COURSELY

[5.30] GRAMS SEED COTTON PER BOLL

[2] Breadth: 1 = BROADER AT BASE, 2 = BROADER AT MIDDLE

[3] Type: 1 = STORMPROOF (WESTBURN 70), 2 = STORM RESISTANT (LANKART 57), 3 = OPEN (DELTAPINE 16)

[3] Shape: 1 = LENGTH < WIDTH, 2 = LENGTH = WIDTH, 3 = LENGTH > WIDTH

16. BRACTEOLES:

[1] Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH

[2] Teeth: 1 = FINE 2 = COURSE

[2] Teeth: 1 = 3-4 2 = 5-7 3 = 8-10 4 = OTHER (Specify) _____

17. YIELD: Compared to—

[80] PERCENT *LESS* THAN .....

[2] PERCENT *MORE* THAN .....

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70
6 = ACALA SJ-1 7 = LANKART 57

18. FIBER LENGTH (Complete one or more of the following and give the means):

[.51] SPAN LENGTH 50%

[1.14] SPAN LENGTH 2.5%

[ ] U.H.M. LENGTH

[ ] MEAN LENGTH

[35] STAPLE LENGTH 32nd INCHES

[ ] UNIFORMITY RATIO (MEAN/U.H.M.)

[45] UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

[ ] 1,000 P.S.I.

[4.6] ELONGATION E_1 — We need 4 spaces for our method - lbs break not reported

[ ] STILOMETER T_0

[450] MICRONAIRE READING

[2600] YARN STRENGTH (Give test method) CSP 32's Table 5

[2.45] STILOMETER T_1

20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[2] VERTICILLIUM WILT	[2] FUSARIUM WILT	[2] ROOT KNOT NEMATODE	[0] BACTERIAL BLIGHT (*Race 1*)
[0] BACTERIAL BLIGHT (*Race 2*)	[0] ASCOCHYTA BLIGHT	[1] PHYMATOTRICHUM ROOT ROT	[0] RHIZOCTONIA
[0] ANTHRACNOSE	[0] RUST	[ ] OTHER (Specify)	

21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[1] BOLL WEEVIL	[1] APHID	[1] FLEAHOPPER	[1] LEAFWORM
[1] FALL ARMYWORM	[1] GRASSHOPPER	[1] LYGUS	[1] PINK BOLLWORM
[0] STINKBUG	[1] THRIP	[1] CUTWORM	[1] SPIDERMITE
[ ] OTHER (Specify)			

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.